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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,913	11/21/2003	Nobuo Ichimura	062709-0118	7376

22428 7590 06/07/2006

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WASHINGTON, DC 20007

EXAMINER
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BOCHNA, DAVID

ART UNIT	PAPER NUMBER
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3679

DATE MAILED: 06/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/717,913	<b>Applicant(s)</b> ICHIMURA ET AL.	
	<b>Examiner</b> David E. Bochna	<b>Art Unit</b> 3679	

-- Th **MAILING DATE** of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 March 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) 5-15 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 16-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Gaitros et al.

In regard to claim 1, Gaitros et al. discloses a connecting comprising:

a first member 1 and a second member 3,

wherein the first member 1 has a peripheral wall portion 11 including an outer end face and a stepped portion 7 engaged with a second member 3,

the peripheral wall portion includes a thin-shaped deformed portion 8 deformed radially inwardly with respect to the stepped portion 7 of the first member,

the deformed portion 8 is a cut section of the peripheral wall portion (see fig. 2),

wherein the deformed portion 8 is positioned axially within the outer end surface 11 of the peripheral wall portion, and

wherein the deformed portion 8 has a concave face 15 abutting the second member 4(9 conforms to the concave outer surface of 4).

In regard to claim 2, Gaitros et al. discloses a connecting structure of a pipe connected to a passage formed in a member, comprising:

a projection portion 4 that projects from the pipe 3 radially outwardly;

a recess portion 7 that is provided at an open end of the passage formed in the member and receiving the projection 4 portion of the pipe,

wherein the recess portion is defined by a peripheral wall portion 7 that includes a thin shaped deformed portion 8 that is deformed radially inward,

wherein the deformed portion 8 is a cut section of the peripheral wall portion (see fig. 2),

wherein the deformed portion is positioned axially within an outer end surface 11 of the peripheral wall portion and is engaged with the projection portion, and

wherein the projection portion 4 of the pipe, which is inserted into the opening end of the passage in the member, abuts a concave face of the deformed portion 8.

In regard to claim 3, wherein the projection portion 4 has an annular shape on an outer periphery of the pipe, the recess portion has an annular shape on an outer periphery of the passage in the member, and the peripheral wall portion 8 is deformed inwardly in a continuous annular shape (fig. 1).

3. Claims 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Wilson et al.

In regard to claim 16, Wilson et al. discloses a connecting structure comprising:

a first member 16; and

a second member 44,

wherein the first member has a peripheral wall portion that includes an outer end face 20 and a stepped portion 63 engaged with the second member,

wherein the peripheral wall portion includes a thin-shaped deformed portion 74 that is defined by a groove formed in the outer end face and that is deformed inwardly with respect to the stepped portion of the first member,

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wherein the deformed portion has a convex outer face (end inner tip of 74 has a rounded convex end) and an inner face 70 that abuts the second member 42.

In regard to claim 17, wherein the inner face of the peripheral wall portion has a concave shape (the inner surface of 74, where it joins back into the vertical wall of 62 contains a concave portion).

In regard to claim 18, Wilson et al. discloses a connecting structure of a pipe connected to a passage formed in a member, comprising:

a projection portion 42 that projects from the pipe 44 radially outwardly;

a recess portion that is provided at an open end of the passage formed in the member and that receives the projection portion of the pipe,

wherein the recess portion is defined by a peripheral wall portion 62 that includes a thin-shaped deformed portion 74,

wherein the deformed portion: (a) is defined by a groove 94 formed in an outer end face of the peripheral wall portion at a distance from the recess portion, (b) is deformed radially inward with respect to the recess portion, and (c) has a convex outer face (rounded interior end of 74) and an inner face 70 that is engaged with and abuts the projection portion 42.

In regard to claim 19, wherein the inner face of the peripheral wall portion has a concave shape (the inner surface of 74, where it joins back into the vertical wall of 62 contains a concave portion).

*Response to Arguments*

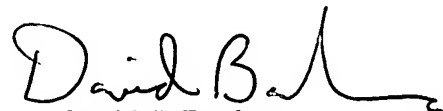
4. Applicant's arguments have been fully considered but they are not persuasive. Applicant argues that Gaitros et al. does not disclose the deformed portion being deformed radially inward. The Examiner disagrees. Deformed portion 8 is deformed inwardly or toward the radial center of pipe's 3 longitudinal axis. The deformed portion 8 also has an concave inner surface as it forms to the convex outer surface of protrusion 4.

*Conclusion*

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Bochna whose telephone number is (571) 272-7078. The examiner can normally be reached on 8-5:30 Monday-Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



David E. Bochna  
Primary Examiner  
Art Unit 3679